

IMCB's SARS-CoV RT-PCR Amplification Sites

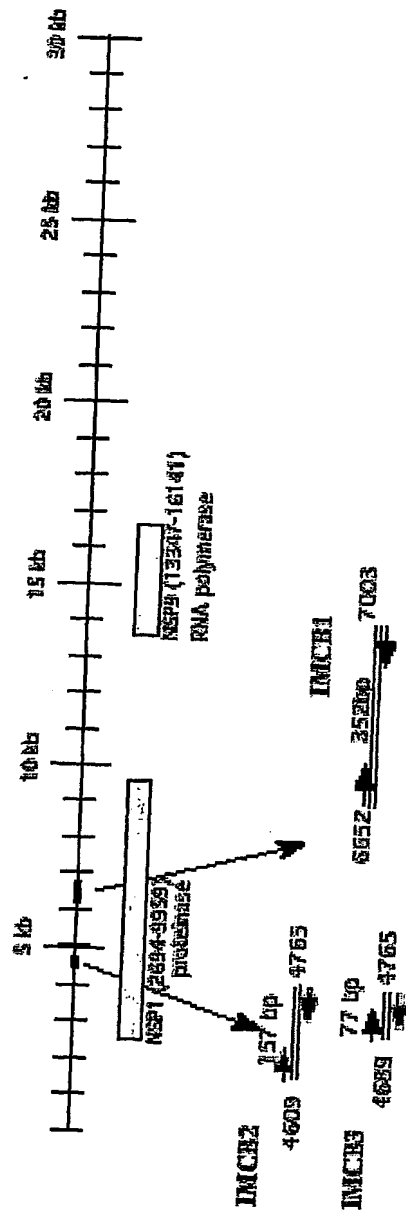


Figure 1

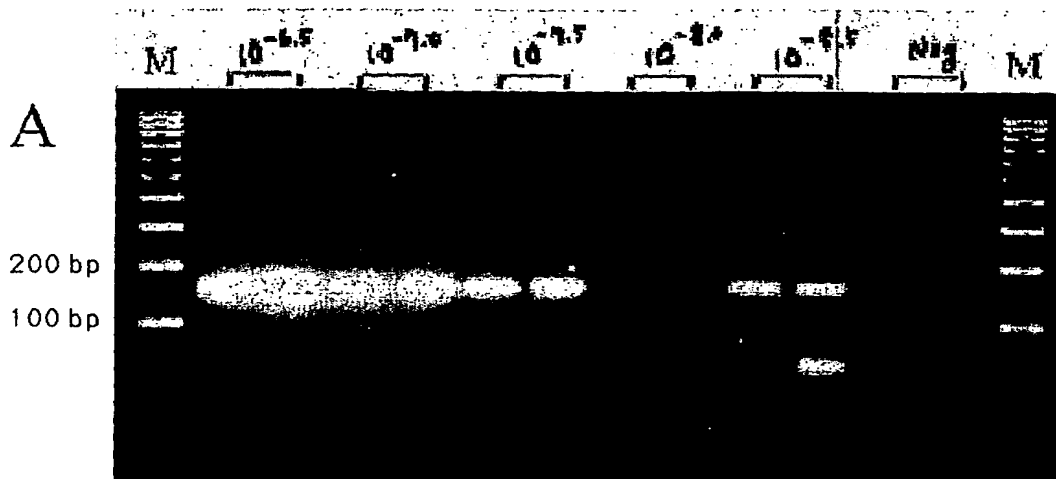
2/5

GCCGTAGTGT	CAGTATCATC	ACCAGATGCT	GTTACTACAT	ATAATGGATA	50
CGGCATCACA	GTCATAGTAG	TGGTCTACGA	CAATGATGTA	TATTACCTAT	
			IMCB 3 Upper Primer		
CCTCACTTCG	TCATCAAGAG	CATCTGAGGA	GCACCTTTGTA	GAAACAGTTT	100
GGAGTGAAGC	AGTAGTTTCT	GTAGACTGCT	CGTGAAACAT	CTTTGTCAAA	
IMCB 3 TaqMan Probe sequence					
CTTTGGCTTC	GCCTACAGAG	GATGGTCCT	ATTCAGGACA	GCGTACAGAG	150
GAAACCGAGC	GAGGATCTCT	GAACCAGGA	TATGTCTGT	CGCATGTCTC	
template sequence			IMCB 3 Lower Primer		
TTAGGTG					157
AATCCAC					

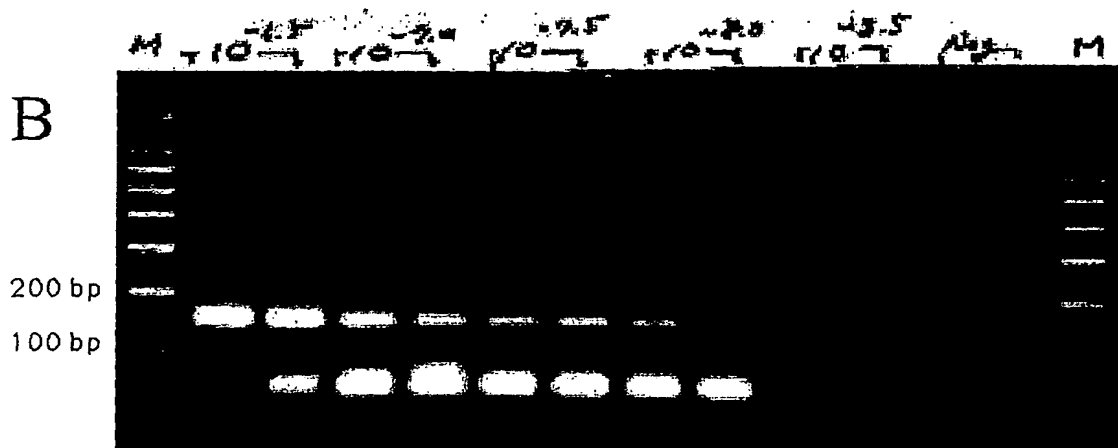
Figure 2

3/5

SARS-CoV One-Step RT-PCR with IMCB 2 Primer Pair



Sensitivity12-4-27.jpg, 42 cycles



Sensitivity16-2-191.jpg, 42 cycles

rxn=5 ul, copies measured by ARTUS (and theoretical value)*

10(-6.0)=26.1 copies/rxn

10(-6.5)=12.6 copies/rxn, (8.2 copies/rxn)

10(-7.0)=1.96 copies/rxn, (2.6 copies/rxn)

10(-7.5)= 2.0 copies/rxn, (0.8 copies/rxn)

10(-8.0)= 0.07 copies/rxn, (0.25 copies/rxn)

10(-8.5)= Not detected, (0.08 copies/rxn)

*10(-6.0) is serially diluted by 10(-0.5) step.

Figure 3

4/5

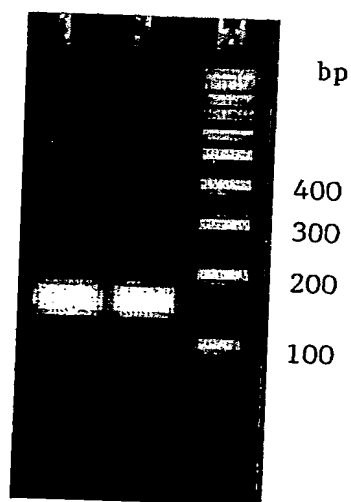
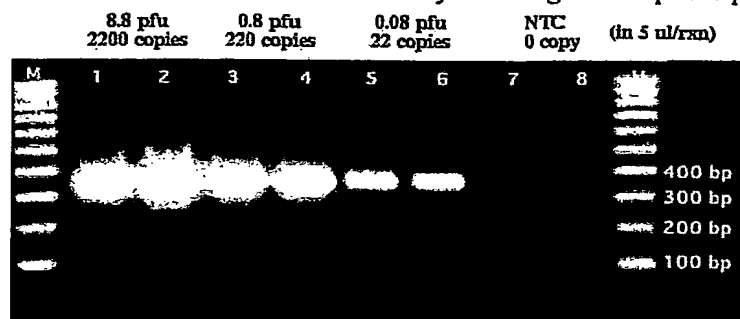


Figure 3C

5/5

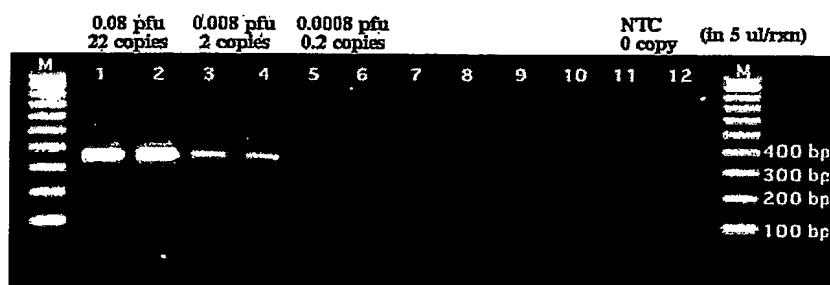
SARS CoV RT-PCR Detection Sensitivity Test using IMCB1 primer pair



L1-2: 8.8 pfu, L3-4: 0.8 pfu, L5-6: 0.08 pfu, L7-8: NTC in 5 ul sample. @1 pfu=250 copies

Fig. 4A

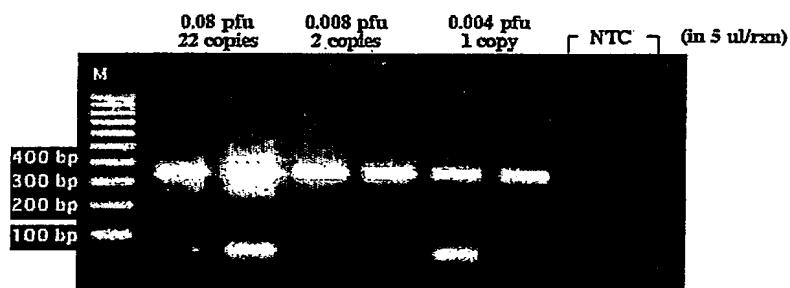
SARS CoV RT-PCR Detection Sensitivity Test using IMCB1 primer pair



L1-2: 0.08 pfu, L3-4: 0.008 pfu, L5-6: 0.0008 pfu, L7-8: 8.8×10^{-4} , L9-10: 8.8×10^{-4} , L11-12: NTC, in 5 ul sample. @1 pfu=250 copies

Fig. 4B

SARS CoV RT-PCR Detection Sensitivity Test using IMCB1 primer pair



L1-2: 0.08 pfu, L3-4: 0.008 pfu, L5-6: 0.004 pfu, L7-8 NTC, in 5 ul sample. @1 pfu=250 copies

Fig. 4C